



PROFESSIONAL GRAPHICS SOLUTIONS

CUSTOMER HAS ANY OF THESE GRAPHICS CARDS?		REPLACE WITH		<input type="checkbox"/> Competitor Product	<input checked="" type="checkbox"/> NVIDIA RTX™ / Quadro®
COMPETITOR	OLDER NVIDIA GPUs	NVIDIA			
SPECIALTY		GP100	NVIDIA Quadro GV100  GV100 SHOWN	NVIDIA QUADRO GV100 VCQGV100-BLK	<ul style="list-style-type: none"> NVIDIA Volta Architecture Based CUDA Cores Accelerated Double Precision (FP64) Performance NVIDIA NVLink® Support Graphics Synchronization with Quadro Sync II 32GB Error Correcting Code (ECC) Memory
ULTRA HIGH END	WX9100	Quadro RTX 8000	NVIDIA RTX A6000  NVIDIA RTX A6000 SHOWN	NVIDIA RTX A6000 & NVIDIA RTX A5500 VCNRTXA6000-PB VCNRTXA6000-SB VCNRTXA6000-BLK VCNRTXA6000-EDU VCNRTXA5500-PB VCNRTXA5500-SB VCNRTXA5500-BLK VCNRTXA5500-EDU	
	WX8200	Quadro RTX 6000		<ul style="list-style-type: none"> NVIDIA Ampere Architecture Based CUDA Cores Second-Generation RT Cores Third-Generation Tensor Cores Graphics Synchronization with Quadro Sync II A6000: 48GB GPU Error-Correcting Code (ECC) Memory A5500: 24GB GPU Error-Correcting Code (ECC) Memory Third-Generation NVIDIA NVLink 	
	W6800	Quadro RTX 5000	NVIDIA RTX A5000  NVIDIA RTX A5000 SHOWN	NVIDIA RTX A5000 & NVIDIA RTX A4500 VCNRTXA5000-PB VCNRTXA5000-SB VCNRTXA5000-BLK VCNRTXA5000-EDU VCNRTXA4500-PB VCNRTXA4500-SB VCNRTXA4500-BLK VCNRTXA4500-EDU	
		Quadro P6000		<ul style="list-style-type: none"> NVIDIA Ampere Architecture Based CUDA Cores Second-Generation RT Cores Third-Generation Tensor Cores Graphics Synchronization with Quadro Sync II A5000: 24GB GPU Error Correcting Code (ECC) Memory A4500: 20GB GPU Error Correcting Code (ECC) Memory Third-Generation NVIDIA NVLink 	
HIGH END		Quadro RTX 4000	NVIDIA RTX A4000  NVIDIA RTX A4000 SHOWN	NVIDIA RTX A4000 VCNRTXA4000-PB VCNRTXA4000-SB VCNRTXA4000-BLK	
Quadro P4000		<ul style="list-style-type: none"> NVIDIA Ampere Architecture Based CUDA Cores Second-Generation RT Cores Third-Generation Tensor Cores 16GB GPU Error Correcting Code (ECC) Memory Slim Single Slot, Full Height Form Factor Graphics Synchronization with Quadro Sync II 			
MID RANGE	W6600	Quadro P2200	NVIDIA RTX A2000 12GB  NVIDIA RTX A2000	NVIDIA RTX A2000 12GB & NVIDIA RTX A2000 VCNRTXA200012GB-PB VCNRTXA200012GB-SB VCNRTXA200012GB-BLK VCNRTXA2000-PB VCNRTXA2000-SB VCNRTXA2000-BLK	
	WX5100	Quadro P2000		<ul style="list-style-type: none"> NVIDIA Ampere Architecture Based CUDA Cores Second-Generation RT Cores Third-Generation Tensor Cores 70W Max Power Consumption 6GB or 12GB GPU Error Correcting Code (ECC) Memory Dual Slot, Half Height Form Factor Full-height (ATX) bracket included 	
ENTRY	W5700	Quadro P1000V2	NVIDIA T1000 8GB  NVIDIA T1000	NVIDIA T1000 8GB & NVIDIA T1000 VCNT10008GB-PB VCNT10008GB-SB VCNT10008GB-BLK VCNT1000-PB VCNT1000-SB VCNT1000-BLK	
	W6400	Quadro P620V2		<ul style="list-style-type: none"> NVIDIA Turing Architecture Based CUDA Cores 8GB GPU Memory Low-Profile Single Slot Form Factor Full-height (ATX) bracket included 8GB GPU Memory 50W Max Power Consumption Up to 50% faster graphics performance compared to the previous generation 	
	W6400		NVIDIA T1000  NVIDIA T1000	NVIDIA T600 VCNT600-PB VCNT600-SB VCNT600-BLK	
	WX3200			<ul style="list-style-type: none"> NVIDIA Turing Architecture Based CUDA Cores 4GB GPU Memory Low-Profile Single Slot Form Factor 40W Max Power Consumption Up to 70% faster graphics performance compared to the previous generation 	
	WX2100			NVIDIA T400 4GB & NVIDIA T400 VCNT4004GB-PB VCNT4004GB-SB VCNT4004GB-BLK VCNT400-PB VCNT400-SB VCNT400-BLK	

1 Display support will vary by system builder.

2 NVLink enables two GPUs to share GPU memory via an NVLink connector. Contact your software vendor to confirm application support for NVLink.

PNY Technologies, Inc. 100 Jefferson Road, Parsippany, NJ 07054 | Tel 973-515-9700 | Fax 973-560-5590 | WWW.PNY.COM/PNYPRO

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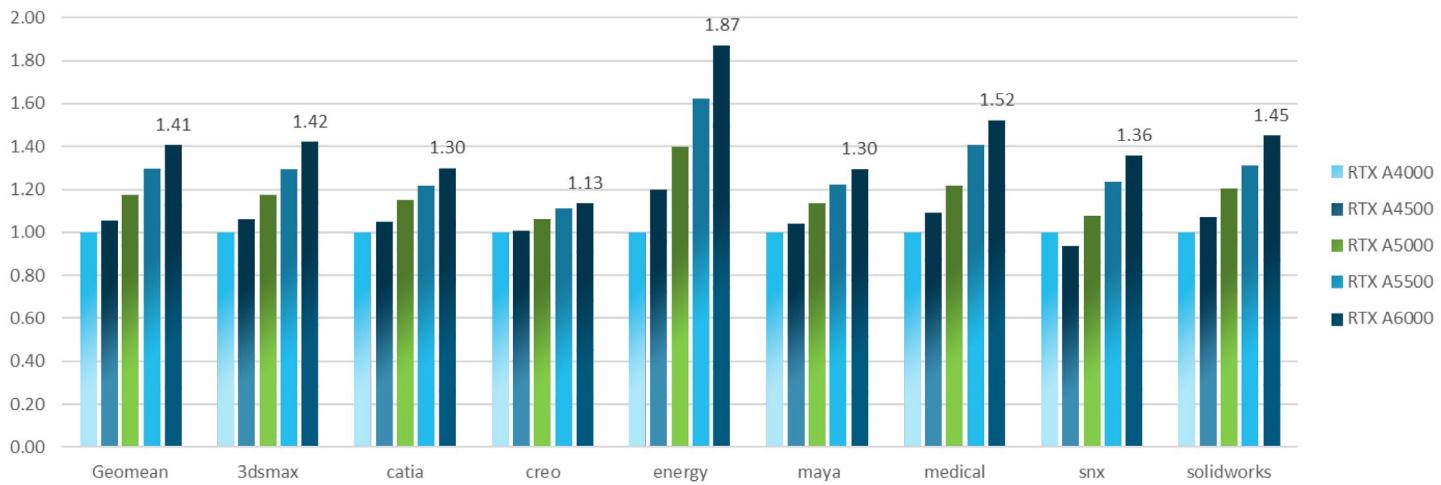




PROFESSIONAL GRAPHICS SOLUTIONS

DESKTOP FAMILY GRAPHICS PERFORMANCE

SPECVIEWPERF 2020 4K RESOLUTION | RELATIVE PERFORMANCE



Tests run on workstation with 1x Xeon Gold 6154, 3GHz (3.7GHz Turbo), Win10 x 64, NVIDIA driver version 511.47, SPECviewperf 20.

DESKTOP FAMILY GRAPHICS SPECIFICATIONS

	RTX A6000	RTX A5500	RTX A5000	RTX A4500	RTX A4000
Architecture	Ampere	Ampere	Ampere	Ampere	Ampere
Chipset	GA102	GA102	GA102	GA102	GA104
Die Size	628.4mm ²	628.4mm ²	628.4mm ²	628.4mm ²	392mm ²
CUDA Cores	10752	10240	8192	7168	6144
Tensor Cores	336	320	256	224	192
RT Cores	84	80	64	56	48
Single Precision (TFLOPS)	38.7	34.1	27.8	23.7	19.2
RT Core (TFLOPS)	75.6	66.6	54.2	46.2	37.4
Tensor Core (TFLOPS)	309.7	272.8	222.2	189.2	15344
GPU Memory	48GB ECC	24GB ECC	24GB ECC	20GB ECC	16GB ECC
Memory Type	GDDR6 ECC	GDDR6 ECC	GDDR6 ECC	GDDR6 ECC	GDDR6 ECC
Memory Interface	384-bit	384-bit	384-bit	320-bit	256-bit
Memory Bandwidth	768 GB/s	768 GB/s	768 GB/s	640 GB/s	448 GB/s
NVENC/NVDEC Chips	1x 2x	1x 2x	1x 2x	1x 2x	1x 1x
NVENC Max Streams	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
NVLink	Supported	Supported	Supported	Supported	Not Supported
System Interface	PCIe Gen 4 x16	PCIe Gen 4 x16			
Power Consumption	300W	230W	230W	200W	140W

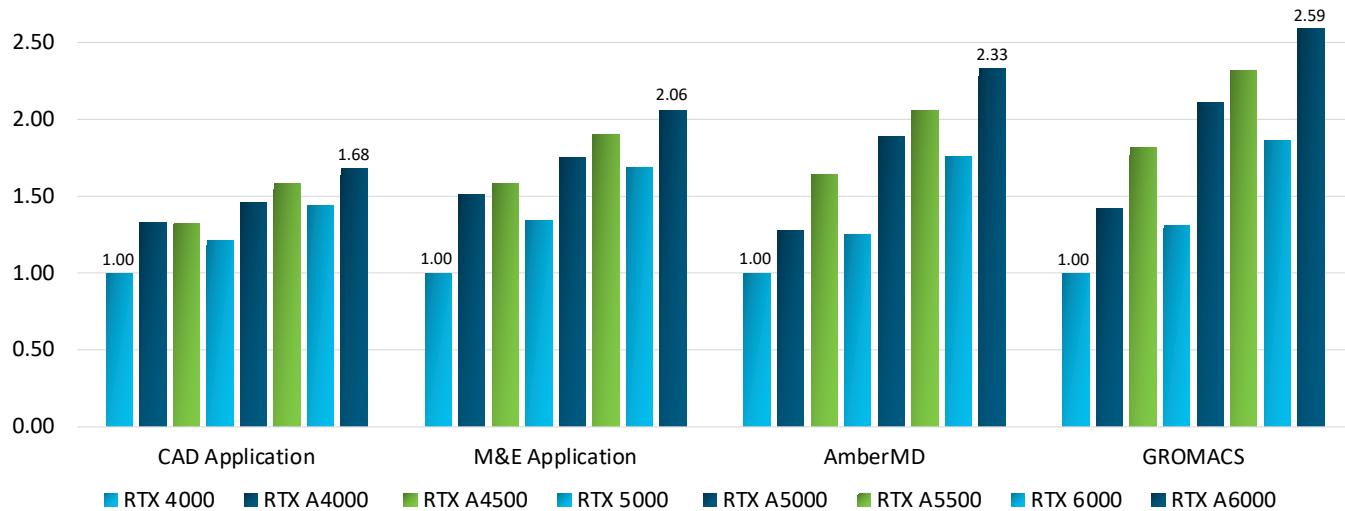


PROFESSIONAL GRAPHICS SOLUTIONS

DESKTOP FAMILY GRAPHICS PERFORMANCE

NVIDIA PROFESSIONAL GRAPHICS CARD RELATIVE PERFORMANCE

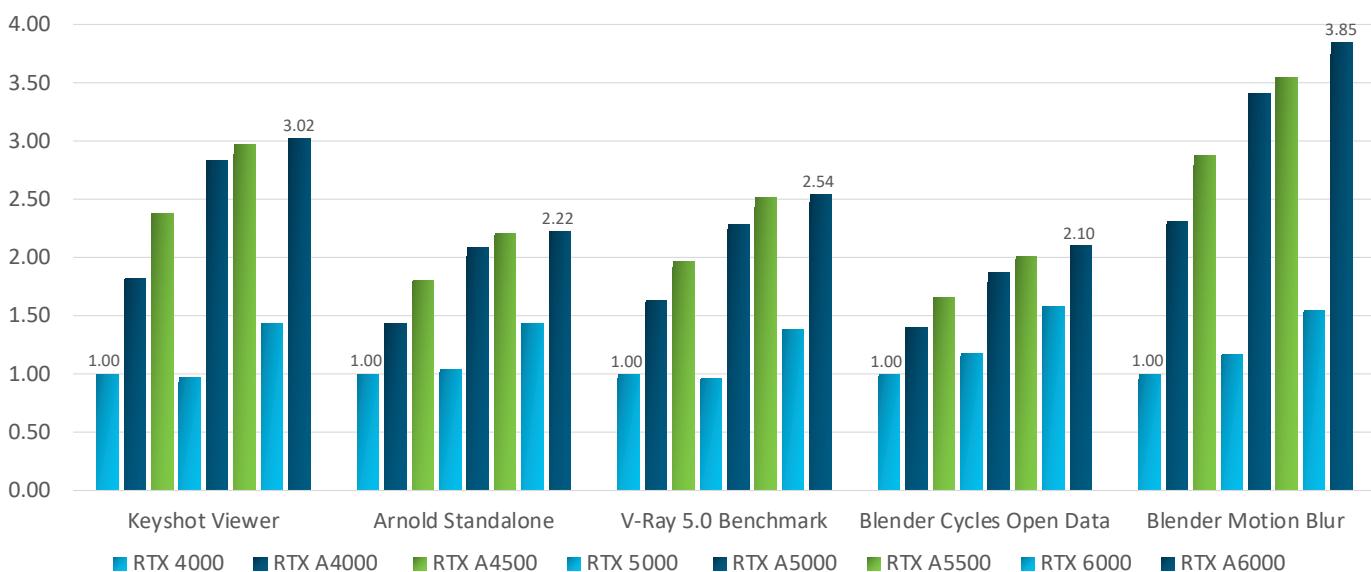
(RTX 4000 AS BASELINE)



Tests run on workstation with Xeon Gold 6154, 3GHz (3.7GHz Turbo), NVIDIA driver version 511.47, SPECviewperf 2020 v3.0, Catia, Creo, and SNX 4K subtests. (CAD) 3DS Max and Maya 4K subtests. (M&E) Tests run on workstation with Xeon Gold 6154, 3GHz (3.7GHz Turbo), NVIDIA driver version 510.39.01, GROMACs STMV (h-bond), FP32 precision. (AmberMD, GROMACS)

NVIDIA PROFESSIONAL GRAPHICS CARD RELATIVE PERFORMANCE

(RTX 4000 AS BASELINE)



Tests run on workstation with Xeon Gold 6154, 3GHz (3.7GHz Turbo), NVIDIA driver version 511.47, Keyshot v10.0 at 1080p. (Keyshot) Arnold v7.0 at 1080p. (Arnold) V-Ray v5.00.2 at 1080p for Optix subtest. (V-Ray) Blender Cycles Open Data v3.0 and Blender Motion Blur v3.0 at 1080p for Optix subtest. (Blender)